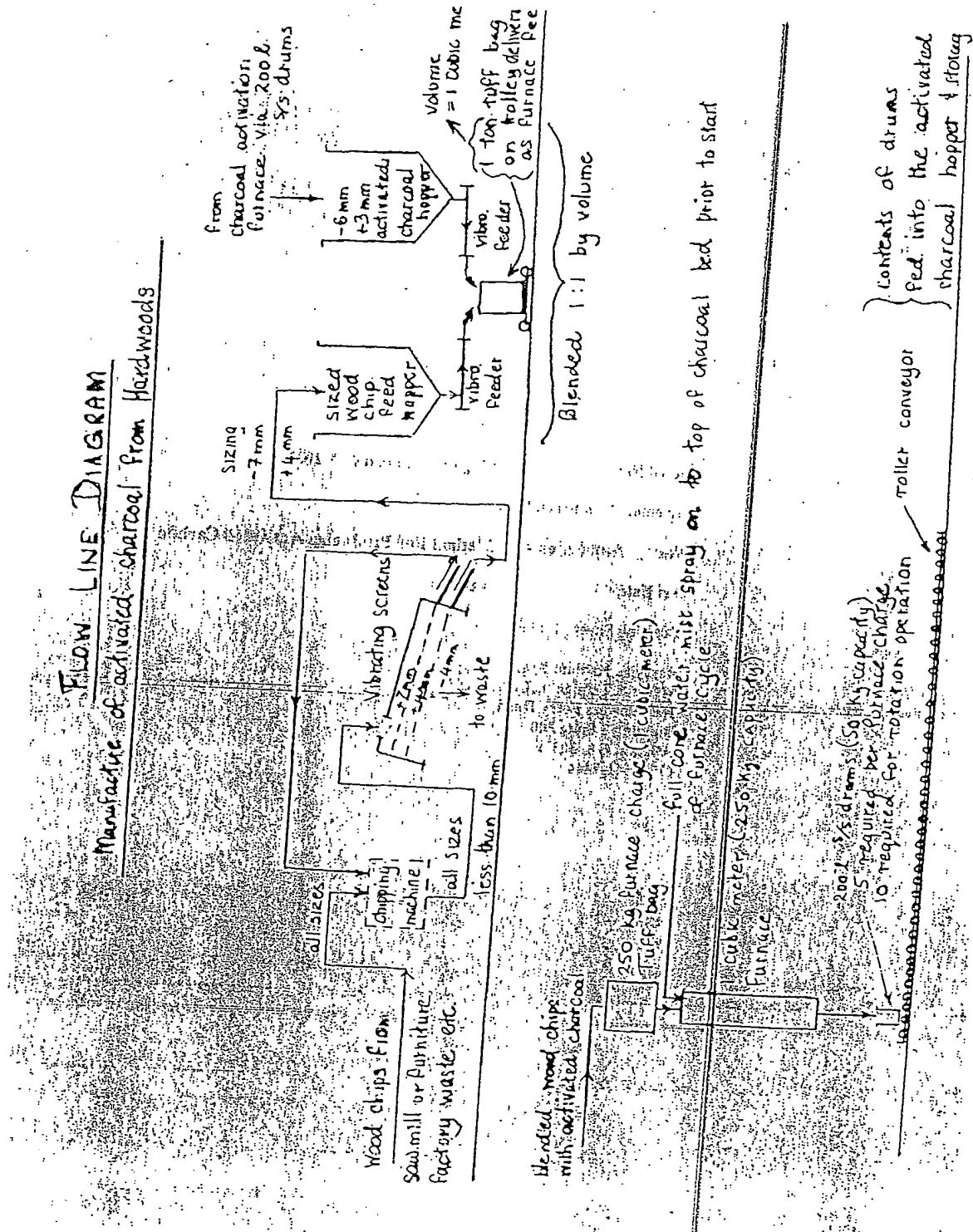


Nonprovisional Patent Application:
Inventor: Von Broembsen, David
For: Apparatus and Method for Producing Activated Carbon
Myers & Kaplan, LLC
Drawing Sheet 1 of 8

FLOW LINE DIAGRAM
Manufacture of activated charcoal from Hardwoods



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Sectional Elevation of ACI Charcoal

Activation Furnace

Note: Mechanism for current flow through bed in a uniform way is demonstrated by current flow from electrodes @ ① & ② to the current distributor rings

uniform temperature distribution throughout

the

rings

+ve electrical connection

See sketch #3
for more details

upper surface of bed
Electrodes buried into bed
for good contact)

Grabber rods - contact on to
top of charcoal/wood chip
bed

X Section of bed - mix of
activated charcoal granules
(3mm to 6mm size) & hard wood
chips (4mm to 7mm size)
blended 1:1 on a volume
basis

Ceramic tube designed for
900° internal & 50°C outside
temp. (good insulator)

See Sketch #5
for more details

angle of repose
for discharge
of bed

1/8 wedge wire discs
for drainage of excess
water from charcoal/
woodchip bed

Stellite coated
m/c current
distributor rings

-ve electrical
connection

Electrical insulator

Knife Gate discharge valve

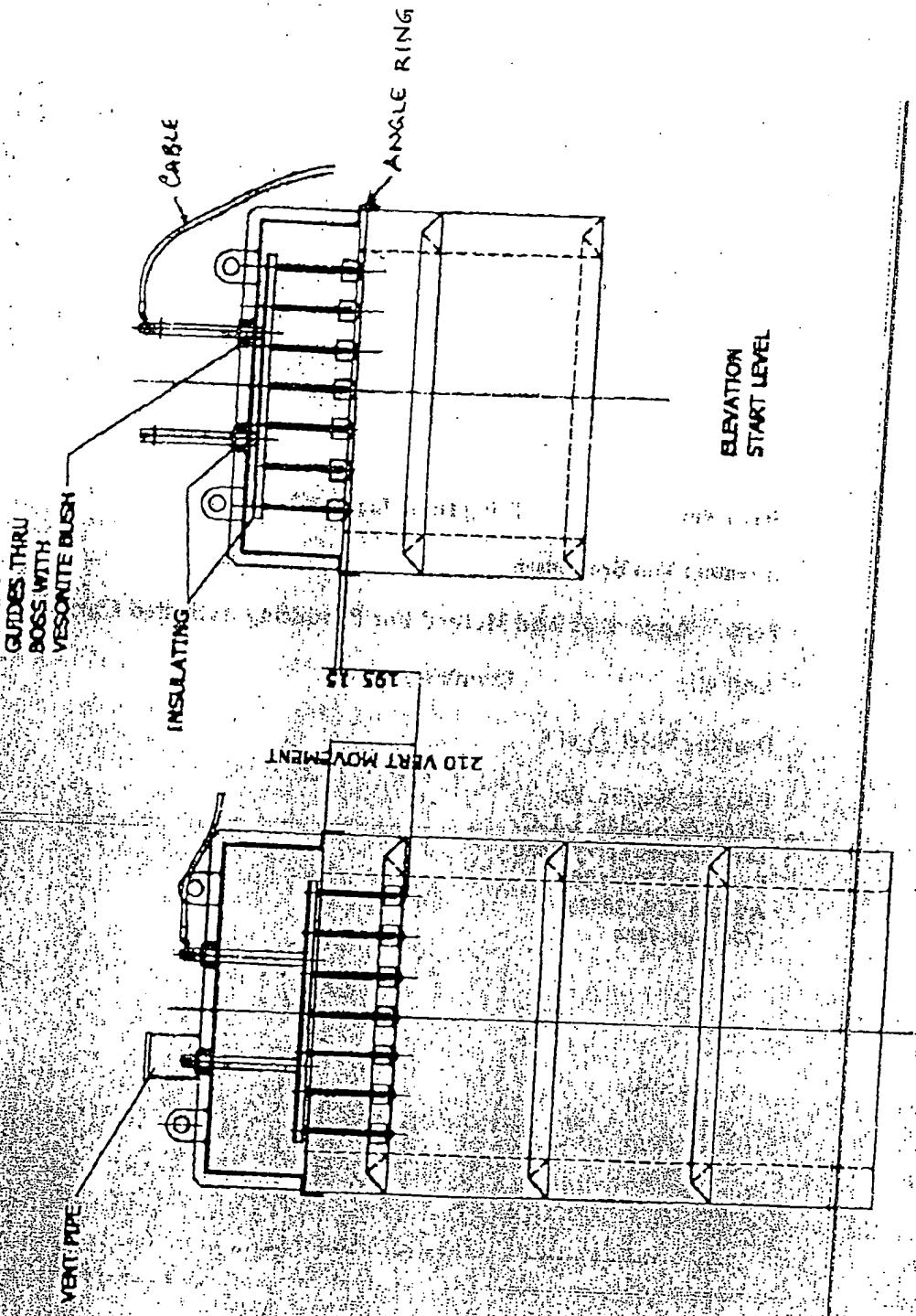
to 1/8 storage drums

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Inventor: Von Broembsen, David
For: Apparatus and Method for Producing Activated Carbon
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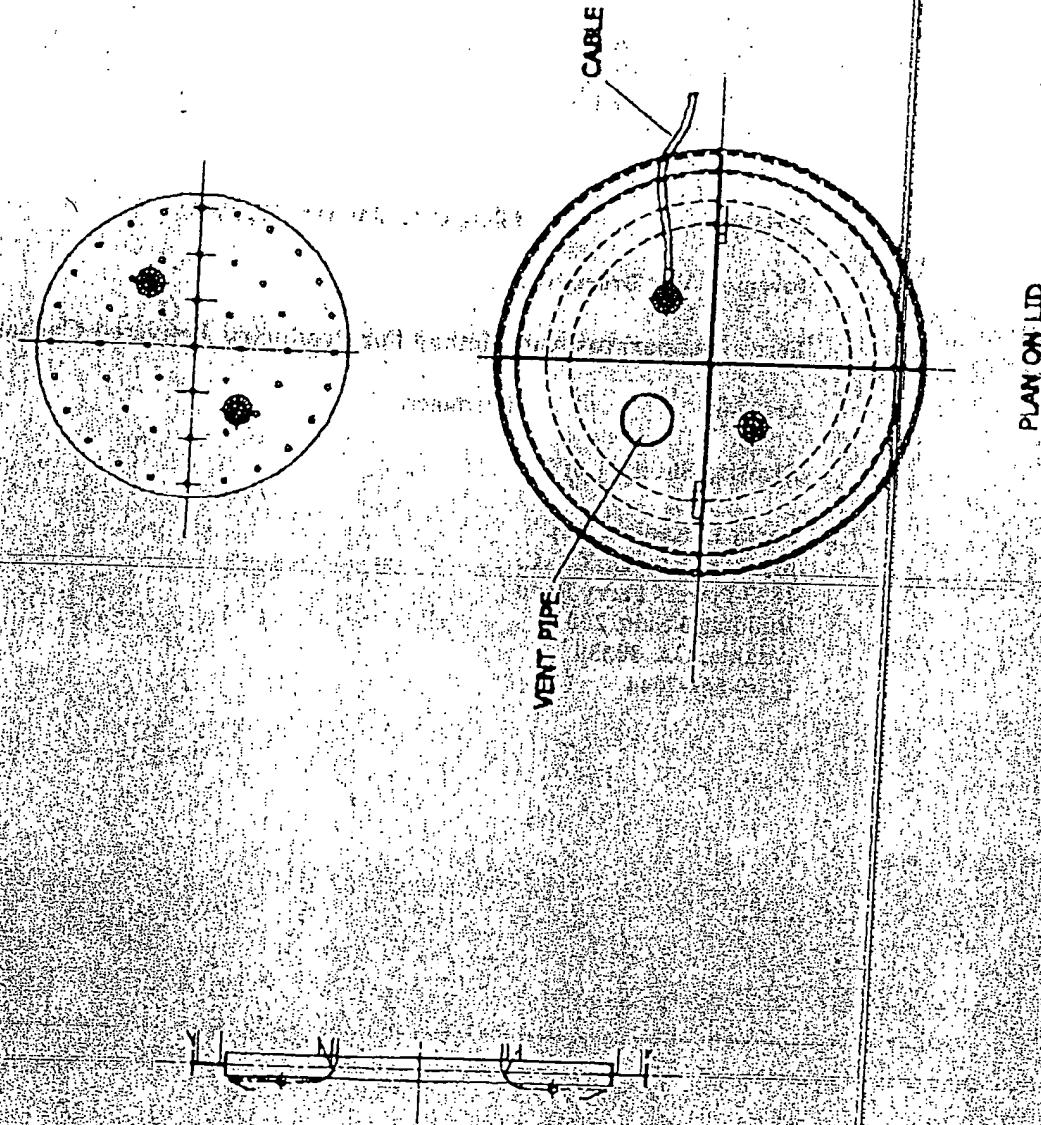
END PAGE
EIGHT
BRIEF

ELEVATION
START LEVEL



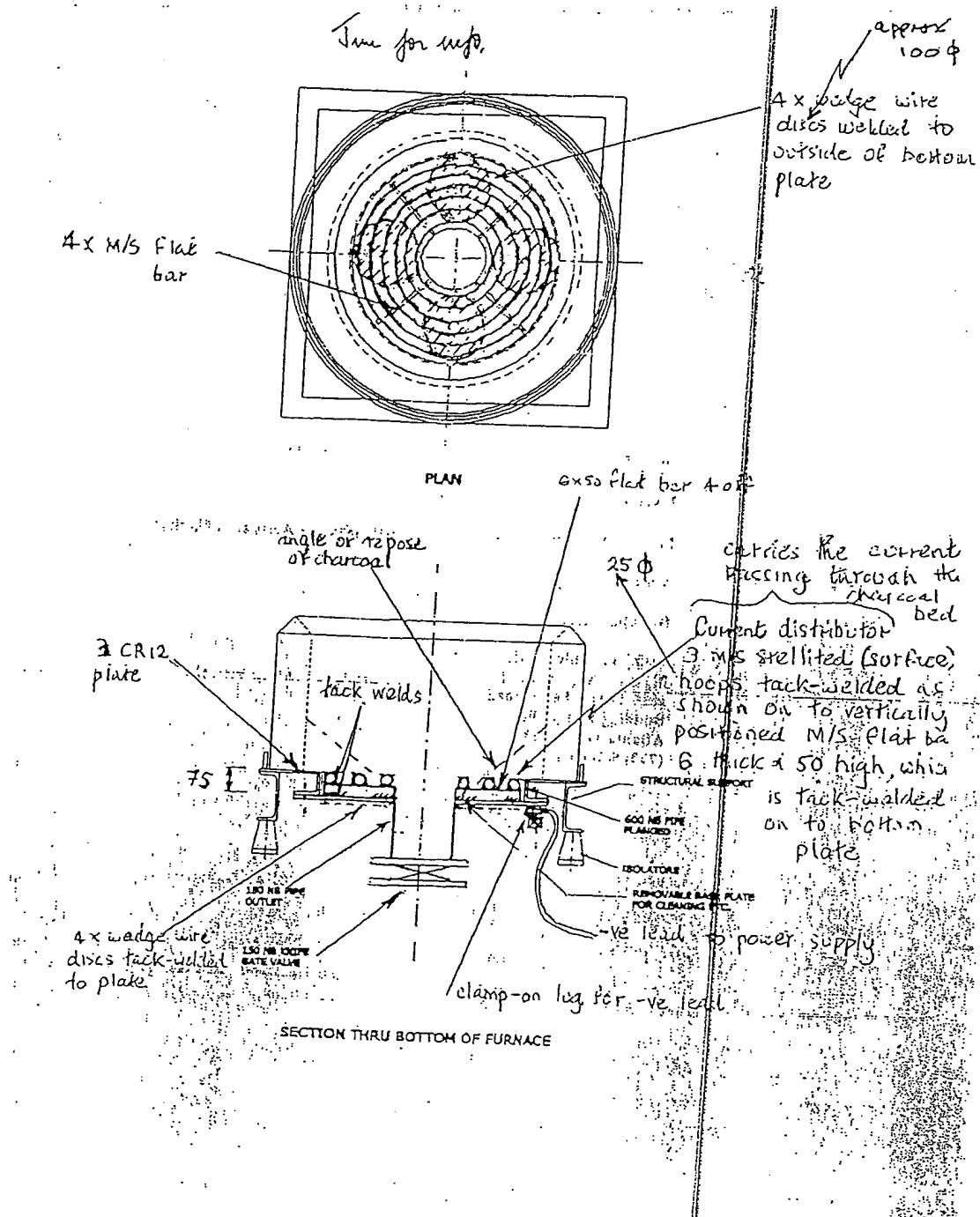
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Inventor: Von Broembsen, David
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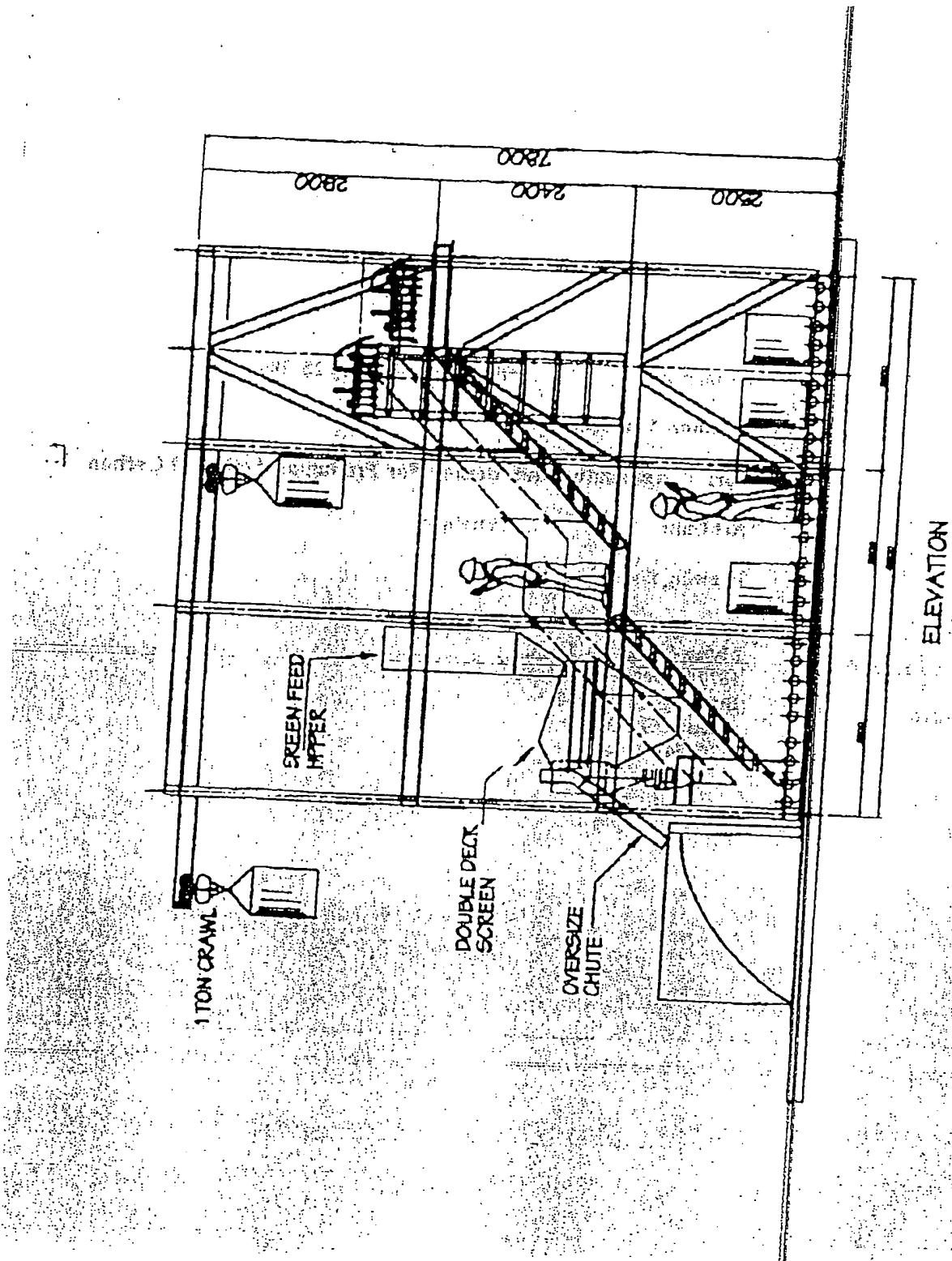
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Inventor: Von Broembsen, David
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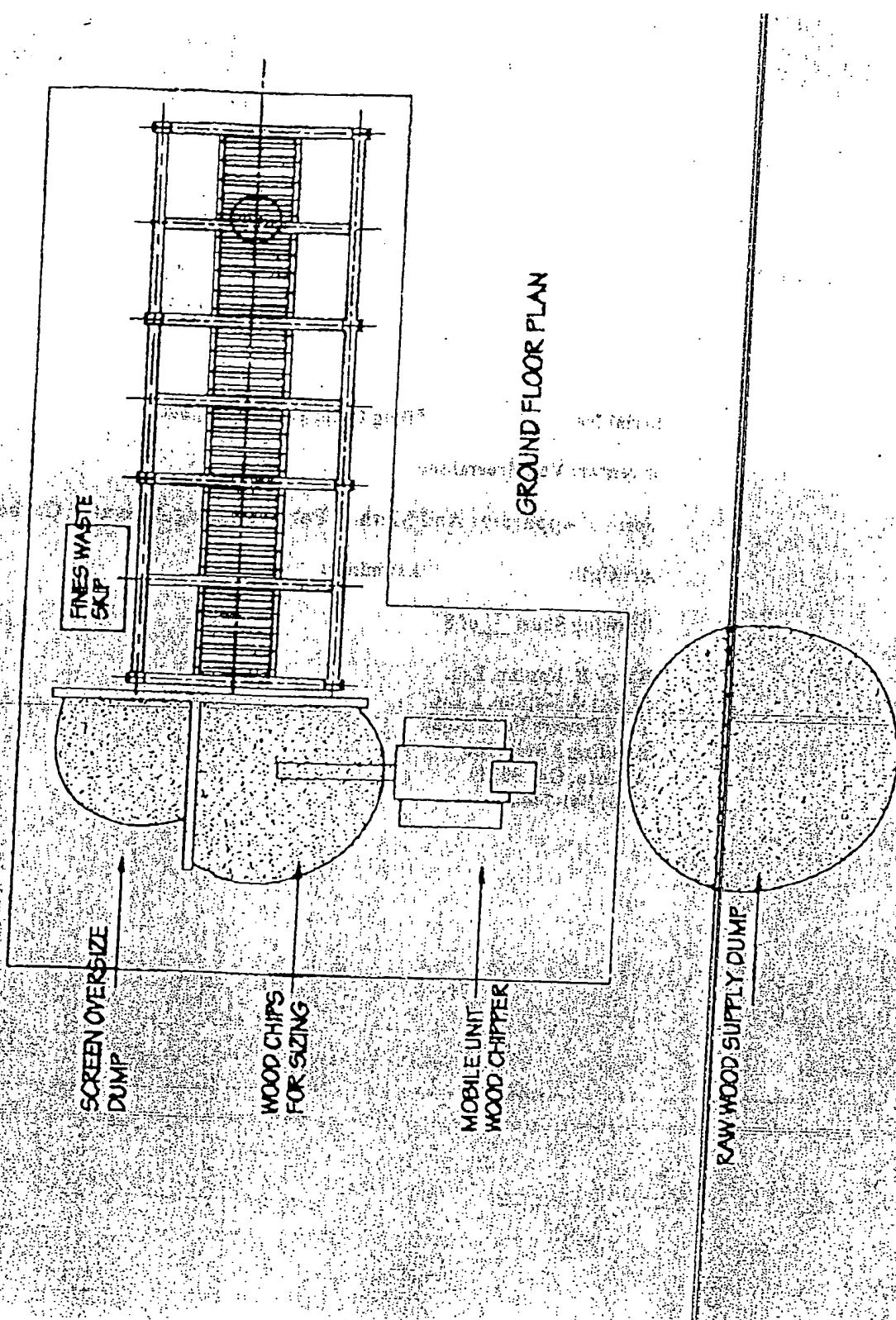
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Inventor: Von Broembsen, David
For: Apparatus and Method for Producing Activated Carbon
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